

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 101573,794A  
Source: IEWD  
Date Processed by STIC: 3/5/07

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)**
2. **U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314**

Revised 01/10/06

## Raw Sequence Listing Error Summary

| <u>ERROR DETECTED</u>                                                                                       | <u>SUGGESTED CORRECTION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>SERIAL NUMBER:</u> <i>10/573,794A</i> |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <b>ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |
| 1 <input type="checkbox"/> Wrapped Nucleics<br>Wrapped Aminos                                               | The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."                                                                                                                                                                                                                                                                                                  |                                          |
| 2 <input type="checkbox"/> Invalid Line Length                                                              | The rules require that a line <b>not exceed 72 characters</b> in length. This includes white spaces.                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |
| 3 <input type="checkbox"/> Misaligned Amino Numbering                                                       | The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use <b>space characters</b> , instead.                                                                                                                                                                                                                                                                                                                                                                                 |                                          |
| 4 <input type="checkbox"/> Non-ASCII                                                                        | The submitted file was <b>not saved in ASCII(DOS) text</b> , as required by the Sequence Rules. Please ensure your subsequent submission is saved in <b>ASCII text</b> .                                                                                                                                                                                                                                                                                                                                                        |                                          |
| 5 <input type="checkbox"/> Variable Length                                                                  | Sequence(s) <input type="checkbox"/> contain n's or Xaa's representing more than one residue. <b>Per Sequence Rules, each n or Xaa can only represent a single residue.</b> Please present the <b>maximum</b> number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.                                                                                                                                                                                                   |                                          |
| 6 <input type="checkbox"/> PatentIn 2.0 "bug"                                                               | A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) <input type="checkbox"/> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. <b>This applies to the mandatory &lt;220&gt;-&lt;223&gt; sections for Artificial or Unknown sequences.</b>                                                                  |                                          |
| 7 <input type="checkbox"/> Skipped Sequences (OLD RULES)                                                    | Sequence(s) <input type="checkbox"/> missing. If intentional, please insert the following lines for <b>each</b> skipped sequence:<br>(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)<br>(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)<br>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)<br>This sequence is intentionally skipped<br><br>Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences. |                                          |
| 8 <input type="checkbox"/> Skipped Sequences (NEW RULES)                                                    | Sequence(s) <input type="checkbox"/> missing. If intentional, please insert the following lines for <b>each</b> skipped sequence.<br><210> sequence id number<br><400> sequence id number<br>000                                                                                                                                                                                                                                                                                                                                |                                          |
| 9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)                                                  | Use of n's and/or Xaa's have been detected in the Sequence Listing.<br>Per 1.823 of Sequence Rules, use of <220>-<223> is <b>MANDATORY</b> if n's or Xaa's are present.<br>In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.                                                                                                                                                                                                                                               |                                          |
| 10 <input type="checkbox"/> Invalid <213> Response                                                          | Per 1.823 of Sequence Rules, the only <b>valid</b> <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is <b>required</b> when <213> response is Unknown or is Artificial Sequence                                                                                                                                                                                                                                                                                       |                                          |
| 11 <input type="checkbox"/> Use of <220>                                                                    | Sequence(s) <input type="checkbox"/> missing the <220> "Feature" and associated numeric identifiers and responses.<br>Use of <220> to <223> is <b>MANDATORY</b> if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.<br>(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)                                                                                                                 |                                          |
| 12 <input type="checkbox"/> PatentIn 2.0 "bug"                                                              | Please <u>do not use</u> "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.                                                                                                                                                                                                                      |                                          |
| 13 <input type="checkbox"/> Misuse of n/Xaa                                                                 | "n" can <b>only</b> represent a single <u>nucleotide</u> ; "Xaa" can <b>only</b> represent a single <u>amino acid</u>                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |



IFWO

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/573,794A

DATE: 03/05/2007  
TIME: 14:44:41

Input Set : A:\Sequence Listing.txt  
Output Set: N:\CRF4\03052007\J573794A.raw

3 <110> APPLICANT: Japan Science and Technology Agency  
 5 <120> TITLE OF INVENTION: Royal Jelly Peptide  
 7 <130> FILE REFERENCE: 04F039PCT  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/573,794A  
 C--> 9 <141> CURRENT FILING DATE: 2006-03-28  
 9 <150> PRIOR APPLICATION NUMBER: JP 2003-338665  
 10 <151> PRIOR FILING DATE: 2003-09-29  
 12 <160> NUMBER OF SEQ ID NOS: 17  
 14 <170> SOFTWARE: PatentIn version 3.1  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 37  
 18 <212> TYPE: DNA  
 19 <213> ORGANISM: Artificial Sequence  
 21 <220> FEATURE:  
 22 <223> OTHER INFORMATION: Primer 1  
 24 <220> FEATURE:  
 25 <221> NAME/KEY: misc\_feature  
 26 <222> LOCATION: (1)..(37)  
 27 <223> OTHER INFORMATION: i  
 30 <400> SEQUENCE: 1  
 W--> 31 aaracnwsna thwsngtnaa rggngarwsn aaygtng  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 29  
 36 <212> TYPE: DNA  
 37 <213> ORGANISM: Artificial Sequence  
 39 <220> FEATURE:  
 40 <223> OTHER INFORMATION: Primer 2  
 42 <400> SEQUENCE: 2  
 43 cgttggcacc agacacgata gatgaaacc  
 46 <210> SEQ ID NO: 3  
 47 <211> LENGTH: 29  
 48 <212> TYPE: DNA  
 49 <213> ORGANISM: Artificial Sequence  
 51 <220> FEATURE:  
 52 <223> OTHER INFORMATION: Primer 3  
 54 <400> SEQUENCE: 3  
 55 ttcttgaatt ttattaatta ctttattcg  
 58 <210> SEQ ID NO: 4  
 59 <211> LENGTH: 50  
 60 <212> TYPE: DNA  
 61 <213> ORGANISM: Artificial Sequence  
 63 <220> FEATURE:  
 64 <223> OTHER INFORMATION: Fragment 1

37

Does Not Contain  
Sequence in the Application  
(pg. 13) C

✓ See item # 11  
 on error <sup>29</sup> summary sheet  
 What is the source of  
 genetic material?  
 In Vitro  
 Response

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/573,794A

DATE: 03/05/2007  
TIME: 14:44:41

Input Set : A:\Sequence Listing.txt  
Output Set: N:\CRF4\03052007\J573794A.raw

66 <400> SEQUENCE: 4  
67 aaaacctcta tctctgttaa aggcgaatcc aacgttgatg ttgtttccca  
70 <210> SEQ ID NO: 5  
71 <211> LENGTH: 40  
72 <212> TYPE: DNA  
73 <213> ORGANISM: Artificial Sequence  
75 <220> FEATURE:  
76 <223> OTHER INFORMATION: Fragment 2  
78 <400> SEQUENCE: 5  
79 gatcaactct ctggtttctt ctatcgtttc tggtgctaac 40  
82 <210> SEQ ID NO: 6  
83 <211> LENGTH: 40  
84 <212> TYPE: DNA  
85 <213> ORGANISM: Artificial Sequence  
87 <220> FEATURE:  
88 <223> OTHER INFORMATION: Fragment 3  
90 <400> SEQUENCE: 6  
91 gtttctgcag tactgctggc tcagactctg gttAACatcc 40  
94 <210> SEQ ID NO: 7  
95 <211> LENGTH: 38  
96 <212> TYPE: DNA  
97 <213> ORGANISM: Artificial Sequence  
99 <220> FEATURE:  
100 <223> OTHER INFORMATION: Fragment 4  
102 <400> SEQUENCE: 7  
103 tgcaGATCCT gatcgacgct aacgtttcg cttaatAG 38  
106 <210> SEQ ID NO: 8  
107 <211> LENGTH: 40  
108 <212> TYPE: DNA  
109 <213> ORGANISM: Artificial Sequence  
111 <220> FEATURE:  
112 <223> OTHER INFORMATION: Fragment 5  
114 <400> SEQUENCE: 8  
115 ttttggagat agagacaatt tccgctttagg ttgcaactac 40  
118 <210> SEQ ID NO: 9  
119 <211> LENGTH: 40  
120 <212> TYPE: DNA  
121 <213> ORGANISM: Artificial Sequence  
123 <220> FEATURE:  
124 <223> OTHER INFORMATION: Fragment 6  
126 <400> SEQUENCE: 9  
127 aacaaagggt ctagtggaga gacAAAGAA gatAGCAAAG 40  
130 <210> SEQ ID NO: 10  
131 <211> LENGTH: 40  
132 <212> TYPE: DNA  
133 <213> ORGANISM: Artificial Sequence  
135 <220> FEATURE:  
136 <223> OTHER INFORMATION: Fragment 7  
138 <400> SEQUENCE: 10

What is the source  
of genetic  
material?

INVALID  
Response

Same error

Same error

Same error

Same error

Same error

? See item # 11

on error summary  
sheet  
3/5/2007

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/573,794A

DATE: 03/05/2007  
TIME: 14:44:41

Input Set : A:\Sequence Listing.txt  
Output Set: N:\CRF4\03052007\J573794A.raw

139 accacgattg caaagacgtc atgacgaccg agtctgagac 40  
 142 <210> SEQ ID NO: 11  
 143 <211> LENGTH: 48  
 144 <212> TYPE: DNA  
 145 <213> ORGANISM: Artificial Sequence  
 147 <220> FEATURE:  
 148 <223> OTHER INFORMATION: Fragment 8  
 150 <400> SEQUENCE: 11  
 151 caattttagg acgtcttagga ctagctgcga ttgcaaaagc gaattatc 48  
 154 <210> SEQ ID NO: 12  
 155 <211> LENGTH: 31  
 156 <212> TYPE: DNA  
 157 <213> ORGANISM: Artificial Sequence  
 159 <220> FEATURE:  
 160 <223> OTHER INFORMATION: LIC Forward  
 162 <400> SEQUENCE: 12  
 163 ggtattttagg gtcgcaaaac ctctatctct g 31  
 166 <210> SEQ ID NO: 13  
 167 <211> LENGTH: 33  
 168 <212> TYPE: DNA  
 169 <213> ORGANISM: Artificial Sequence  
 171 <220> FEATURE:  
 172 <223> OTHER INFORMATION: LIC Reverse  
 174 <400> SEQUENCE: 13  
 175 agaggagagt tagagcccta ttaagcgaaa acg 33  
 178 <210> SEQ ID NO: 14  
 179 <211> LENGTH: 162  
 180 <212> TYPE: DNA  
 181 <213> ORGANISM: bee  
 183 <220> FEATURE:  
 184 <221> NAME/KEY: misc\_feature  
 185 <222> LOCATION: (1)..(162)  
 186 <223> OTHER INFORMATION: unknown  
 189 <220> FEATURE:  
 190 <221> NAME/KEY: CDS  
 191 <222> LOCATION: (1)..(162)  
 192 <223> OTHER INFORMATION:  
 W--> 194 <400> 14  
 195 aaa aca tca atc agt gtc aaa ggc gaa tcg aac gtg gat gtc gtt tcc 48  
 196 Lys Thr Ser Ile Ser Val Lys Gly Glu Ser Asn Val Asp Val Val Ser  
 197 1 5 10 15  
 199 caa atc aac agt ttg gtt tca tct atc gtg tct ggt gcc aac gtg tca 96  
 200 Gln Ile Asn Ser Leu Val Ser Ser Ile Val Ser Gly Ala Asn Val Ser  
 201 20 25 30  
 W--> 203 gca gta ctc cta gct caa act tta gtt aat atc ctg caa att nnn atc 144  
 204 Ala Val Leu Leu Ala Gln Thr Leu Val Asn Ile Leu Gln Ile Xaa Ile  
 205 35 40 45  
 207 gac gct aat gtt ttc gct 162  
 208 Asp Ala Asn Val Phe Ala

*Same errors*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/573,794A

DATE: 03/05/2007

TIME: 14:44:41

Input Set : A:\Sequence Listing.txt  
 Output Set: N:\CRF4\03052007\J573794A.raw

209 50  
 212 <210> SEQ ID NO: 15  
 213 <211> LENGTH: 54  
 214 <212> TYPE: PRT  
 215 <213> ORGANISM: bee  
 217 <220> FEATURE:  
 218 <221> NAME/KEY: misc\_feature  
 219 <222> LOCATION: (47)..(47)  
 220 <223> OTHER INFORMATION: The 'Xaa' at location 47 stands for Lys, Asn, Arg, Ser, Thr, Ile,  
 221 Met, Xaa, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,  
 222 Cys, or Phe.  
 224 <400> SEQUENCE: 15  
 226 Lys Thr Ser Ile Ser Val Lys Gly Glu Ser Asn Val Asp Val Val Ser  
 227 1 5 10 15  
 230 Gln Ile Asn Ser Leu Val Ser Ser Ile Val Ser Gly Ala Asn Val Ser  
 231 20 25 30  
 W--> 234 Ala Val Leu Leu Ala Gln Thr Leu Val Asn Ile Leu Gln Ile Xaa Ile  
 235 35 40 45  
 238 Asp Ala Asn Val Phe Ala  
 239 50  
 242 <210> SEQ ID NO: 16  
 243 <211> LENGTH: 162  
 244 <212> TYPE: DNA  
 245 <213> ORGANISM: bee  
 247 <220> FEATURE:  
 248 <221> NAME/KEY: CDS  
 249 <222> LOCATION: (1)..(162)  
 250 <223> OTHER INFORMATION:  
 W--> 252 <400> 16  
 253 aaa aca tca atc agt gtc aaa ggc gaa tcg aac gtg gat gtc gtt tcc 48  
 254 Lys Thr Ser Ile Ser Val Lys Gly Glu Ser Asn Val Asp Val Val Ser  
 255 1 5 10 . 15  
 257 caa atc aac agt ttg gtt tca tct atc gtg tct ggt gcc aac gtg tca 96  
 258 Gln Ile Asn Ser Leu Val Ser Ser Ile Val Ser Gly Ala Asn Val Ser  
 259 20 25 30  
 261 gca gta ctc cta gct caa act tta gtt aat atc ctg caa att ctt atc 144  
 262 Ala Val Leu Leu Ala Gln Thr Leu Val Asn Ile Leu Gln Ile Leu Ile  
 263 35 40 45  
 265 gac gct aat gtt ttc gct 162  
 266 Asp Ala Asn Val Phe Ala  
 267 50  
 270 <210> SEQ ID NO: 17  
 271 <211> LENGTH: 54  
 272 <212> TYPE: PRT  
 273 <213> ORGANISM: bee  
 275 <400> SEQUENCE: 17  
 277 Lys Thr Ser Ile Ser Val Lys Gly Glu Ser Asn Val Asp Val Val Ser  
 278 1 5 10 15  
 281 Gln Ile Asn Ser Leu Val Ser Ser Ile Val Ser Gly Ala Asn Val Ser

## RAW SEQUENCE LISTING

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DATE: 03/05/2007

TIME: 14:44:41

Input Set : A:\Sequence Listing.txt

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|     |                                                                 |    |    |
|-----|-----------------------------------------------------------------|----|----|
| 282 | 20                                                              | 25 | 30 |
| 285 | Ala Val Leu Leu Ala Gln Thr Leu Val Asn Ile Leu Gln Ile Leu Ile |    |    |
| 286 | 35                                                              | 40 | 45 |
| 289 | Asp Ala Asn Val Phe Ala                                         |    |    |
| 290 | 50                                                              |    |    |

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/05/2007  
PATENT APPLICATION: US/10/573,794A TIME: 14:44:42

Input Set : A:\Sequence Listing.txt  
Output Set: N:\CRF4\03052007\J573794A.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 6,9,15,18,24,30,36

Seq#:14; N Pos. 139,140,141

Seq#:14; Xaa Pos. 47

Seq#:15; Xaa Pos. 47

VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/573,794A

DATE: 03/05/2007  
TIME: 14:44:42

Input Set : A:\Sequence Listing.txt  
Output Set: N:\CRF4\03052007\J573794A.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:31 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:194 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:14, Line#:192  
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:96  
M:341 Repeated in SeqNo=14  
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:32  
L:252 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:16, Line#:250